

3305 BC

8000 BC

Begins mesolithic Period
(for Spain & North Europe)
Ends 3000 BC

At beginning of Neolithic
period (for Spain & North
Europe)

~~Neolithic ends 3500 BC~~

Neolithic Period 3000 BC to 1500 BC
Ends Neolithic 1500 BC

8000 BC

Begins MESOLITHIC PERIOD
(East Mediterranean)

Ends 6000 BC at beginning

of Neolithic Period
[FOR East Mediterranean]

Neolithic ends 3,500 BC

POOBC

Hunter groups move into
Lapland from the east, south
and west; ~~south and west~~
Ancestral Saami

8000 BC

Fully domesticated wheat, barley
and pulses cultivated in
Fertile Crescent (Jericho)

8000 BC

Sea Level rise at the end
of the Ice Age creates new
islands and more coastline
in South-East Asia

8000 BC

Archaic stage in North America.
Greater variety of food sources -
smaller game animals, plants,
fish and shellfish. New tool types.

First burials in North America,
often with red ochre.

8000BC

Plants were domesticated
and soon thereafter animals
as well

8000 BC

The earliest paintings found in the ~~Sah~~ Sahara desert executed on rock walls at Tassili in southern Algeria in about 8000 BC showed humans hunting buffaloes, elephants, lions, and antelopes.

8000 BC

Several lakes evaporated in
the rift valley and the present
Dead Sea was left behind
Bottom lies about 2,350 ft below
sea level. It holds less than
1000 ft of water

10,000 yrs ago

Prehistoric tribes arrived at
the Colorado R. at least
10,000 yrs ago.

8000 BC

The stature of modern humans
shrank after agriculture became
common around 10,000 Y.A.

10,000 y A

People had spread into
South America

8000 BC

Remains at Guila Naquitz, Mexico
provided the earliest evidence
of SQUASH cultivation in
the Americas

C 8000BC

Farming began.
The first towns appear in
the Near East.

8000 BC

More than 10,000 yrs ago
during 1st stage of Egy ptian
Civilization, a crude calendar
consisting of 12 months of
30 days each was developed.
Thus, the Cal. yr was 360 days.

C80003C

People learned how to grow their own crops on patches of land and to raise their own animals for food.

For the 1st time in history people began to build permanent houses, followed by towns and cities.

8000 BC
10,000 Y A

130 km south of Calgary
Lands east of the Rocky Mtns; from
the time the first Paleo-Indians entered
the region 10,000 yrs ago, they were
redoubtable hunters even though
they hunted on foot. Mammoths
were the game they favored at
the start. & when the great beasts
became scarce they turned to
hunting two different species of buffalo

both now extinct

8000BC

10K YA \Rightarrow present

HOLOCENE EPOCH

Glaciers recede

Sea level rises

Climate becomes more equable.

Forests flourish again

Humans acquire agriculture
and technology.

8000 BC
10,000 yrs ago

Early adventures worked their way south from the Bering Strait. eventually getting as far south as Tierra del Fuego in South America 10,000 yrs ago.

Biologically they were completely modern homo sapiens. no evidence has been found to indicate that any evolution

change occurred in the near west.

8000BC

House mouse adapted to humans when the development of agriculture led to the invention of grain storage bins, and permanent settlements grew up.

8000AC

This is about 500 yrs after the
beginnings of agriculture (Aurignac),
northeast of the TIGRIS R. There may
NOT have been more than 8 million
humans on earth

10,000 → 2,800 Y.A. 9000 BC → 800 BC

Cherokee Indians

During the Archaic period 10K → 2.8K Y.A. Indian hunters & gatherers occupied Dechoase Bottom (near Little Tenna. R. Borderline between N.C. & Tenn.), a site favored for its proximity to chert tools. Periodically the camps on the flood plain would be flooded. Now lies under waters of a lake created by Tellico Dam.

8000 B.C.

The cultural traits which distinguish the Early Neolithic (8000 - 5000 B.C.) are the domestication of the dog, the invention of the bow and the invention of pottery. Also the TRUE AXE. Its wedge shape is the basis for many of our modern mechanical appliances.

The mentioned pitting was probably the
result of an accident, when workers
had long been used to good concrete.
Clay was often used to fill in the
interstices so that the workers would have
water. It was finally discovered that
when the clay was exposed to heat of the
fire it became very hard & impenetrable.

8000 BC

House mice (*MUS MUSCULUS*)
adapted humans about 10,000 yrs
ago when the development
of agriculture led to the
invention of grain storage bins

C 10,000 YA = C 8000 BC

The last glacial (ice) period
unterminated. The end was rather
abrupt

Within 1000 years the
glaciers retreated to the Arctic

8070BC

Agriculture develops in
Near East.

C 8000 BC

Farming begins and the
first towns built in the
Near East.

8000 BC

One authority states the ancient Egyptians had a Calendar in which there were

12 months, or lunar cycles, to the year.

Each month had 30 days, so there were 360 days to the year.

This Cal. lost approx a few days each year

About 4000 BC. (See 4000 BC)

8000AC
10,000 yr

Chesapeake Bay, valley between
Delaware Bay and Pamlico Sound
began filling up as sea levels
rose some 10,000 yrs ago
at the end of the Ice Age.

FORD BC

Jericho, (oldest known[?]) city, was settled

800000

(Northern Iraq)

Nemrik, Qamez Dore and
M'lefaat - three of oldest
villages in the world.

Were contemporary with first
domestication of plants and
animals for ~~partial~~ subsistence
purposes.

8000 BC - 4000 BC

Neolithic or "New Stone" Age.
the earliest farm communities
were established.

8000 BC → 3500 BC

Neolithic period

10,000 ^{5000 B.C.} years ago

Epoch
Holocene began

9000 BC
10,000 yrs ago

The present interglacial period
started

c 8000bc
8000 yrs + ago

For more than 8000 yrs the
English Channel separated the
European continent from the
island

10,000 Y A
8000 BC

The warm period started
known as the interglacial
period.

8000 BC

More than 10,000 yrs ago
glaciers retreated in the U.S.
forming the Lakes.

Lake Superior, Lake Michigan
etc.

over 6000 ships have subsequently
sunk in the Great Lakes &
St Lawrence River.

8000BC

Nov 15, 1997 - They have traced the DNA of wheat back to when it 1st started from a wild variety in the KARACADAĞ Mountains in Southeastern Turkey.

At the same time: Sheep; goats; pigs; and dogs were domesticated. This EINKORN later became wheat for our bread.

8000 BC

In Egypt a globular pot with
ledge handles was made

by 6000 BC it had become a cylinder
5000 BC shrank to a little conical pot
4000 BC Copied in alabaster
3000 BC Became upturned at top & bottom
& had a narrow neck

8100 BC

10,000 YA

Würm (Weissen)

The Bering Strait provided a dry
land bridge

8000 BC
10,000 yrs ago

New Analysis of squash seeds
and other plant remains from
a Mexican cave extends
plant domestication in the
Americas back more than
4000 yrs before the earliest
evidence of maize and
bean cultivation.

This means - the transition to

acquired very little opportunity
to get some sense as in the
new East and China.

8000 BC

10,000 yrs ago

SMILODON FATALIS

10-in long canine teeth (La Brea
tar pits)

Roamed North America

10,000 yrs ago.

BIG, Barrel-chested

Powerful forelegs

325-pound

8000 BC
10,000 Y A

Sabertooth Cat (SMILODON FATALIS)
dominated the California landscape

8000 BC

Estimated 3 million humans
on Earth.

8000 BC
11,000 yrs ago

Paleo Indians from Asia came
south through Panama

8070 B C

The ice began its final retreat.

^{8000 BC}
10K → 5K YA

Neolithic (Archaeology)
New Stone Age.

c. 8000 BC
10,000 y A

Neolithic cultures began
(New Stone Age)

8000BC

End of Stone Age

Seavice house
9/26/98

New World settlers stayed inland
where they could exploit hunting
and foraging skills developed
in Asia.

8000 to 2000 BC

10,000 YA \rightarrow 4000 YA

During this time agriculture and urban life were introduced in the near East

8'000B C

Jericho, oldest known city, settled.

8000 BC

By 8000 BC in the Levant, a typical settlement was out in the open & had a significantly larger population than those of earlier periods. The collecting & processing of plant material was intensified and it is possible that some plant species were controlled, although there was no specific evidence for this. Hunting certain ungulates continued to be the basic means of obtaining food.

but very close relations existed between
the hunter & the hunted

8000BC,
10KYA

Saber-toothed Cats roamed
southern California until
their extinction approx
10,000 y.a.

9000 BC

Ganj Dagh

was inhabited about 10,000 yrs ago
for a span of no more than 150 ± 50
yrs. Settlement of ALI KOSH
occurred 500 to 1000 yrs later
& lasted about 500 yrs

80006c

Goats

People began to domesticate wild goats at least 10,000 years ago in the ZAGROS MOUNTAINS of Western Iran.

At that time villagers in the area experimented with ways of controlling herds. These early domesticators primarily slaughtered male goats that had not reached their reproductive

prime, leaving mother male to
feed with a herd's adult female
over time, initiation of marriage has
and the initiation of marriage feeding
produced changes in domesticated goats.

8000BC

Prehistoric people in near East used a wide variety of plants as sources of food. Wild varieties of cereals, pulses, and tree nuts made an increasing proportion of the diet.

L 8000BC

Probably agriculture was introduced into the world more than once

Animals were probably domesticated first but not at every community in the Near East and in every region.

It is not altogether positive that agriculture was an early advantage

8000 B C \rightarrow 4500 B C

Four strata of prehistoric
settlements at JERICHO
showing the transition to a
pastoral and agricultural culture

C 800062

Available evidence supports the proposition that the introduction of agriculture was an incremental process.

8000 BC
10,000 y A

Carbon dioxide in the
atmosphere reached concentrations
of 334 and 362 parts per
million.

c10,000 yrs ago = 8,000BC

A median estimate of the human population 8000BC is 8 million.

By 8000 BC

The land bridge linking North
America with Asia was sub-
merged.

? 8,000 BC

Sweet potatoes,

8000 BC

Counting techniques required

This later provided the inspiration
for Sumerian writing known
as Cuneiform

TOKENS : cones, spheres, and pyramids

8000 B C

Ency Americana

EGYPTIANS CAL

12 months of 30 days ea. = 360 days.

8000 B.C.

The Palaeolithic (or Old Stone)
Age ended about 8000 B.C.

8000 BC \rightarrow 4000 BC
 \rightarrow 3500 BC

The Neolithic (New Stone) Age lasted in the Near East ^{until} about 4000 or 3500 BC and in the more backward Europe until even a later date.

C 8000 BC

C 10,000 yrs ago

The last ice age ended

8000 BC
10,000 yrs ago

Mining in Europe for copper was a well-developed art in Neolithic times. It had been done in Paleolithic times, at least as far back as 10,000 years ago (pg 152 Scientific American May 1980)

Technology of mining is much older than Agriculture

8000 BC \rightarrow 4000 BC

New Stone Age

8000 BC

Jericho - a city in the Middle East was settled.

C 8000 BC

Last ice age ended.
The old stone age ended at
about the same time.

8000 BC = 10,000 yrs ago in places

6000 BC = 8,000 yrs ago in other places

NEOLITHIC PERIOD, or NEW STONE AGE

Earliest known developed from the

NATUFIAN in SW Asia between 8000 BC

and 6000 BC. People lived in settled villages, cultivated grains and domesticated animals, developed pottery and weaving and evolved into urban civilizations of the BRONZE Age. In SE Asia a distinct type of Neolithic culture cultivated rice

Before 2000 B.C. NEW WORLD people
independently domesticated plants
and animals, and by 1500 B.C.
NEOLITHIC cultures existed in
Mexico and South America that
led to the AZTEC and INCA civilizations

C8000BC

Settlement in Ancient
Jericho

about 8000 B.C.

There is some evidence that
the bow and arrow were
invented around the
North African Coast.

8000 BC
10,000 yrs \Rightarrow Present

HOLOCENE

Glaciers retreat. Climate warms.

Deserts form in some areas. Many scientists argue that HOLOCENE is only another interglacial episode of the PLEISTOCENE epoch.

Tip: Human civilization; mankind begins to affect climate geology. Extinction of other species continues.

10,000 years ago = 8000 BC

Beginning of fishing.
Domestication of dog.

10,000 yrs Ago 8,000 BC

HOLOCENE

horse, bison, reindeer, deer,
all rocks

HOMO SAPIENS

10,000 yrs ago = 8000BC

FOLSOM Man (later than)
(LAWSON man) hunted great
bison (9 ft tall)

They used a notched stick
called ATLATL to add power
to spear throwing.

10,000 yrs ago = 8000 BC

3 large boulders roughly
carved to look like human
heads.

Found in a gravel pit near
MALAKOFF in Northeast TX.
also found were bones of mastodon,
mammoth, a type of small horse,
camel, ground sloth.

10,000 ysaago = 8000 BC

Other participants in the worldwide boom of 10,000 ysaago were fishermen equipped with canoes, harpoons, and nets, who followed the teeming Kuroshio current out to sea on prolonged fishing trips, supplemented their diet from the forest, cooked their food in fire pots, and lived in permanent homes.

10,000 years ago = 8,000 B.C.

The rising level and improved rainfall transformed intermittent torrents into generous rivers that plastered their banks with silt at flood times, thus controlling weeds and preparing the soil for easy riverside cultivation. Humanity's main crops were domesticated in an impressive worldwide roll call; rice in Indochina, sugar cane in New Guinea, millets in Africa and China, beans and maize in

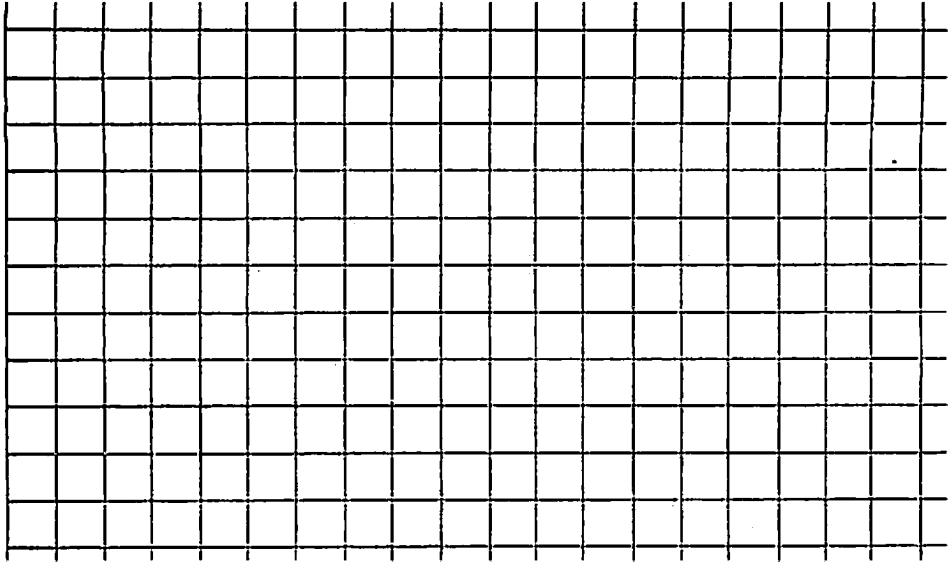
the Americas. Altogether about twenty major crop plants came into cultivation in 7 to 10 distinct regions, between 10,000 (8,000 BC) and 7,500 yrs ago (5500 BC). In each center of origin women gardeners, no longer as lean and well exercised as their gatherer grandmothers, found themselves cursed with frequent menstruation and batic galore.

8000 BC

Agriculture began in Near
East
Sheep and cattle domesticated

8000-7000 BC

Potatoes are domesticated in Peru.
Pumpkins in middle America.
beans are cultivated in Peru
and rice in Indochina. Floodwater
agriculture is used in the
Vale valley and in southwestern
Asia



C 8000 BC \rightarrow C 7000 BC

Early Agriculture
NEOLITHIC

8000 BC

The world's top crop (1992) and
one of the first cultivated plants,
WHEAT was grown in the
Fertile Crescent perhaps 10,000
ago

Duncan; Cal

10,000 yrs ago = 8000 BC

DunCal 1998

Until the final retreat of the glaciers
10,000 yrs ago, the Sahara was
covered not with sand but
with savanna

8070 BC

Jericho

A permanent settlement of some 2000 people has been established just beside the spring of Fines-SULTAN.

Its irrigation system and the large tower and defense wall imply a social organization that justified Jericho's title as the oldest city in the world.

8000 BC

The proto - neolithic village
of Jericho underwent a spectacular
development around 8000 BC
there had been a small
village there for 2000
centuries previous
The new one (8000 BC) was
built with houses of mudbrick
on round or oval stone foundations

10,000 y.A.

End of Upper Palaeolithic &
Beginning of the Holocene

10,000 yrs ago = 8000 B.C.

It warmed up

Rising sea levels cut off
Australia and the Americas
which henceforth pursued
their own independent lines
of development

8000 BC → 3500 BC

East Spanish rock-shelter Painting
Mesolithic Period

8500 BC → 6000 BC

Mesolithic Period (East Mediterranean)

10,000 years ago to
Present

We are now in the early stage
of a fourth interglacial period,
which is distinguished geologically
as the Holocene Epoch.

The continental glaciers
are still with us, though, for
they continue to cover both
Greenland and Antarctica.

8000BC

In high valleys of the Andes
hunter-gatherers may have
unearthed and consumed the
potato by 8000 BC., but
millennia passed before Andean
first cultivated that tuber.

Duncan: Cal

8000 yrs ago = 7000 BC

Duncan: Cal 1998

The Savanna in the Sahara
died as the earth warmed and
the people of the northeastern Sahara
were forced to the valley of
the Nile. There they abandoned
their Paleolithic life of hunting
and gathering and adapted
to the cycles of the river. This
provided a deep-set regularity in

• The Egyptians culture which began
forming and building settlements
by about 7000 BCE

9000BC

Humans domesticated wheat about 10,000 yrs ago from plants whose wild relatives still survive.

8070 BC \rightarrow 3077 BC

Marching Warriors (ritual dance)?
Casulla Gorge, Castellón, Spain

Before 8000 BC

Settlements in northern Mesopotamia
date from before 8000 BC.

8000 BC \Rightarrow 3000 BC

MESOLITHIC PERIOD

Spain & North Europe

Middle Stone Age

8000 BC \Rightarrow 6000 BC

MESOLITHIC PERIOD
Eastern Mediterranean

Middle Stone Age

8000 BC

men began to select, breed, domesticate
and cultivate various species of
plant and animal

The beginning of agriculture.
Sometimes called the Neolithic
or agricultural revolution

Between 8000 BC & 4000 BC

The agricultural (Neolithic revolution)
The transformation of man from a hunter
and fisher to an agriculturist and from
a migratory to a sedentary life, was a
decisive event in world history. The increase
in food resources which followed made
possible a spectacular growth of
human population which is calculated
to have multiplied sixteen times

between 8000 and 4000 BC

8000 BC to 4000 BC

Increase in food resources which followed made possible a spectacular growth of human population which is calculated to have multiplied sixteen times between 8000 BC and 4000 BC.

$\approx 8,000$ BC

Man began to select, breed, domesticate
and cultivate various species of
plant and animal
neolithic or agricultural
revolution.

8,000 BC
10,000 yrs ago

During the first stages of Egyptian civilization, more than 10,000 yrs ago, a crude Cal. consisting of 12 months of 30 days ea. was developed. Thus this Cal yr was 360 days long.
4000 BC - 5 days were added.

10,000 yrs ago = 8000 BC

Dogs were independently domesticated in northwestern Europe, North America (Idaho and Illinois) and Japan.

? 8000 BC

Pastorale Domestica

8000BC
10,000 yrs ago

most recent ice age ends

8000 BC

End of last Ice Age

8000 BC

The forebears of the Mayan
Civilization inhabited their
territory from around end
of the last ice age

8000 BC

Waters now issuing from springs of the Sinai are over 10,000 yrs old.

AYUN MUSA near Suez is an example. A large aquifer exists under the desert. AYUN MUSA means Springs of Moses. It was too bitter for Israelites to drink. The aquifer was probably formed in the last glacial age.

8000 BC

Man began to select, breed,
domesticate and cultivate various
species of plants and animals

Good BC
10,000 y A

As the ice age became over. Ice melted. Continents once weighted by ice have been rising for the last 10,000 yrs. overwhelming the earthquakes that want to force the North Pole toward Tokyo. Measurements since 1900 show the North Pole migrating in the opposite

election due to the rising of the
land farms

there - midday - which
needs to be working with the
main the present the police
position near the last 100 million
years

8070 BC

Vast quantities of old water
still exist under the
Sahara Desert.

See "Scientific American" May, 1966

8000 BC

Agriculture develops in
Middle East

9900 yrs ago - 7900 BC

Metalworking Anatolia

7,900 BC

metallworking with native copper
Anatolia (pins, beads, and a bronze resmer)

7800 BC to 6800 BC

The land (noway etc) was the Arctic and North Sea), relieved of the tremendous weight of ice, rose and shut off communication with both the Arctic and the North Sea.

7,800 BC

BOREAL: Warmer, monsoon in India;
warmest phase in southern
hemisphere

7,700 BC

Goat domesticated in Persia

7700-5700BC

CATAL HUUYUK in Turkey; obsidian
mined for tools; fertility cult indicates
use of domesticated cattle

7,640 ~~B.C.~~ (9,640 yrs ago)

Unidentified volcanic eruption

7,600 B.C.

Goat domesticated in Persia.

7600 BC

Incipient Agriculture in
the Mesolithic period 8000 → 6000 BC

c 7500 BC

JERICHO Wall

C7500 BE

Jericho Wall

7500 BC

Pigs domesticated.

7500 - 5500 BC

Assyria

In river valleys sites of archaeology
have been buried under modern
water table and are thus
inaccessible to excavators.

7,500 BC
9,500 YA

Domestication of plants and
animals begins

7500 BC

Gricks built a wall around
the town.

7,500 yrs ago 5,500 BC

Rather astonishing events took place
around the Black Sea some 7,500 y A.
Ocean levels were about 400 ft lower

than now (about 20K ago until 8K)

Meltwater flowed down to the Black Sea

Basin, then out through a river

channel into the Mediterranean connected
to world ocean @ Gibraltar, so flow of fresh
water through the Black Sea was downhill

no time period - given about 8 months

from glass - large & thin rock dipping, black
see of sediment. Top of Black Sea begins

drop. Now at north of Black Sea becomes

dry land - now several hundred feet from

that of the Mediterranean (reported by the

Roman & Persian (the dry land).

The Mediterranean into through & through

the Black Sea basin

ASK YA

Calamitous flood of the Black Sea
about 7,500 yrs ago

Probably Noah's flood

As the last ice age was waning
12,000 yrs ago (10,000 BC), the Black
Sea was a smaller freshwater lake
As glaciers melted over next 1000 yrs
global sea levels rose gradually
but markedly. Probably the dam

at today's Boreas collapsed sending 10
cubic miles of seawater per day
pouring into the Black Sea - then
50 ft lower.

9500 BC

First pottery manufactured in
Sahara and its southern fringes
with characteristic wavy
line decoration

7,500 BC

Water Buffalo and pigs
were domesticated.

14060907H
Stage 800082
obs ch res'01
Ind m

95004740 = 75785c
From demotivated.

7,577 BC

Pap now domesticated

Investigation of plants and
animal life

2,500 ft
9500 ft

7,500 BC

Rye - Syria

7,502 BC

Use demonstrated

C 2578 BC

Domestication of the dog.

1500 B.C.

in America

Environment conditions began

to favor their growing period (the

good climate) while lowering the

normal opportunities of their

game hunter. This debt made

the mist of a great change in the

climate: over a wide area extending

from Utah to the northern highland
of middle America, large herds

of grassland became waste desert;
large game and plants requiring a
lot of water gave way to small
game and desert adapted plants.
The seed-gatherers survived

9500 years ago (7500 B.C.)

Local surges of population began a gradual growth in glacial meadows, and the gardens spread along the river valley. In south-

western Asia the husband of gardeners can be dated at 9500 years ago (7,500 B.C.) when the same histology was to be found all around the Fertile Crescent which curves

from Palestine to the Arabian Persian Gulf. Domesticated forms of wheat, barley, sheep, and

goats constituted a highly successful package.

7500 BC

Extensive settlement at Jericho,
covering, fortification, remains of cultivated
cereals.

7,300 B.C.

man cultivates his first crops,
wheat and barley, in the
near East.

9,300 BC

Man cultivates his first crops,
wheat and barley, in
near East.

9,053 \pm 350 y A

7,053 BC \pm 350 yrs

In a core known as Fort Rock Core
in Oregon were found some
300 pieces of woven rope made of